Los Alamos NATIONAL LABORATORY EST. 1943

AGENDA

The Multi-Phase Physics of Sea Ice: Growth, Desalination and Transport Processes

Tesuque Room, Inn and Spa at Loretto, Santa Fe, New Mexico
8–10 September 2010

Half-hour talks plus equal time for questions and discussion will begin at 8:30 AM MDT, ending by 5 PM September 8–9 and by noon on September 10. Breaks are scheduled for ∼10 AM, noon, and 3 PM.

Wednesday, September 8

Steve Ackley	32 years of sea ice biogeochemistry in the Southern Ocean
Hajo Eicken	Observations of salinity evolution in Arctic spring and summer sea ice
Ken Golden	Critical behavior of fluid and electrical transport in sea ice
Danny Feltham	The mushy layer model of sea ice
Philipp Griewank	Desalination processes revisited
Andrew Wells	Optimal convective brine drainage scaling for sea ice
Dinner	*6 PM, The Shed,* $113\frac{1}{2}$ *E. Palace Avenue (no-host, cash only)*

Thursday, September 9

Bryan Travis	Water, ice and salts on Mars, the water moons and asteroids: modeling issues
Tim Papakyriakou	CO_2 exchange over sea ice—questions and answers after six years of observations
Brice Loose	Gas transfer through Polar Sea ice (GAPS): What we know and what we guess about air-sea exchange in ice covered waters
Nicole Jeffery	Parameterizing gravity drainage for models of sea ice passive tracers and salinity
Chris Petrich	Salt flux and salinity of growing sea ice
Martin Vancoppenolle	Modelling sea ice salinity: 1D, 3D modelling and implications for ecosystems

Friday morning, September 10

Adrian Turner	Modeling microphysics and salinity evolution of sea ice
Ben Saenz	A macro-scale, quasi-empirical method for slush ice desalination
Jens Debernard	Grease ice in large scale models
	Further discussion and plans for collaboration

This workshop is sponsored by the Climate, Ocean and Sea Ice Modeling (COSIM) project at Los Alamos National Laboratory, whose funding from the Biological and Environmental Research division of the U. S. Department of Energy Office of Science is gratefully acknowledged.